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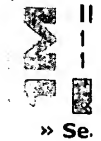
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**1 Rule-based speech analysis and application of CELP coding**
*Copperi, M.;*

Acoustics, Speech, and Signal Processing, 1988. ICASSP-88., 1988 International Conference on , 11-14 April 1988

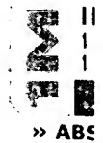
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## Rule-based speech analysis and application of CELP

Copperi, M.

CSELT, Torino, Italy;

*This paper appears in: Acoustics, Speech, and Signal Processing, 1988. :*  
**88., 1988 International Conference on**

Meeting Date: 04/11/1988 - 04/14/1988

Publication Date: 11-14 April 1988

**Location:** New York, NY USA

On page(s): 143 - 146 vol.1

Reference Cited: 14

Inspec Accession Number: 3238331

### Abstract:

An approach is presented for efficiently encoding speech signals at low bit rates, exploiting a combination of various speech analysis and compression techniques cooperating via a rule-based reasoning system. A front-end **analyzer** compresses events at nonuniformly spaced time intervals, by resorting to dynamic and static variable-**frame-rate** methods relevant to perception models. Then a codebook-based linear-predictive (CELP) coder performs a perceptually meaningful identification and quantization of the excitation parameters, to provide an optimal rendition of the signal. This coding scheme can reduce the transmission rate down to 2.4-2.8 kbps, retaining a very good quality. The main applications are in voice response systems and voice mail.

### Index Terms:

data compression encoding expert systems speech analysis and processing voice communication 2.4 to 2.8 kbit/s LPC codebook-excited-linear predictive coding exc parameters perception models rule-based reasoning system speech analysis speech compression speech signal encoding static variable-frame-rate methods voice mail response systems

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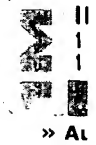
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